

FIG. 1A

FW ON start

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: GTAAATGGCAAAACTTTCATGCTAAATGTCAGATTTCTCGACGAGGTTTCTCTCGACGGTTATCTCTGATGGCCATCTTTGGGGGAACCTTG : 117
: ---ATGGCAAAACTTCGATGCTAAATGTCAGATTTCTCGACGAGGTTTCTCTCGACGGTTATCTCTGATGGCCATCTTTGGGGGAACCTTG : 114

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[illegible]

h5HT4B	: GCACATTGAGCTGTTCAACACATCTCGGATTTATGGGGAGGTGTTTTGTCTTGTTCGGACATCTCTGGAGCGTCTGCTCACAAAGGCGATCGATTTTTTCAAGCTGTGCTGCATTTCTCTG	: 351
s5HT4B	: GCCATTGAGCTGTTCAACACATCTCGGATTTATGGGGAGGTGTTTTGTCTTGTTCGGACATCTCTGGAGCGTCTGCTCACAAAGGCGATCGATTTTTTCAAGCTGTGCTGCATTTCTCTG	: 348

FW ABI

: CATAGGTATTACGCCCATCTTGTGCTATAGGAACAAGATGACCCCTCTGCGCATTCGCATTAAATGCTGGGAGGCTGCTGGGTATATTTCTTTCTC : 468
 : GACAGGTATTATGCCCATCTTGTGCTATAGGAACAAGATGACCCCTCTGCGCATTCGCATTAAATGCTGGGAGGCTGCTGGATATATTTCTTTCTC : 465

FW B1

h5HT4B : CCTATAATGCAAGGCTGGCAATAACATTGGCATAAATTTGGAAAGSAGTGCTAAACCAAGCGCTGGGCAGGATTTTCATCGCATAGAAAAGCAGGAAGTTCCACCAGAAGCTCTAAC : 585

d5HT4B : CCTATAATGCAAGGCTGGCAATAATATTGGCATAAATTTGGCATATCCCAAGCCAAAGGCTGGGCAGGATTTGCATGTGATAGAAAAAGGAAGTTTCAACCAAAAAGCTCCCAAC : 582

FW AB3

REV B2

h5HT4B : TCTACGTACTGTCTTCATGGTCAACAAGCCCTACGCCATCAGCTGCTCTGTGGTGGCCCTCTTACATCCCAATTTCTCTCATGTGTGCTGGCCCTATTACCGCATCTATGTCCACAGCT : 702

h5HT4B : TCTACGTACTGTCTTCATGGTCAACAAGCCCTACGCCATCAGCTGCTCTGTGGTGGCCCTCTTACATCCCAATTTCTCTCATGTGTGCTGGCCCTATTACCGCATCTATGTCCACAGCT : 699

FIG. 1A_{CONT'D}

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h5HT4B      : VMDKLDANVSSEEGEGSVKVVLLTFLSTVILMAILGNLLVMVAVCWDRQLRKIKTNYFIVSLAEADLLVSVLWMPF : 77
d5HT4B      : -MDKLDANVSSEEGEGSVKVVLLTFLSTVILMAILGNLLVMVAVCWDRQLRKIKTNYFIVSLAEADLLVSVLWMPF : 76
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h5HT4B	: G A I E L V Q D I M I Y G E V E F C L V R T S L D V L L T T A S I F H L C C I S L D R Y Y A I C C Q P L V Y R N K M T P L R I A L M L G G C W I P T F I S	: 154
d5HT4B	: G A I E L V Q D I M I Y G E V E F C L V R T S L D V L L T T A S I F H L C C I S L D R Y Y A I C C Q P L V Y R N K M T P L R I A L M L G G C W I I P M F I S	: 153

h5HT4B	: FLPIMQGWNNIGIIDLERSLNQGLGQDFHAIEKRKENQNSNSTYCVFMVNKPYAITCSVAFYIPELLMVLAYYRIY	: 231
d5HT4B	: FLPIMQGWNNIGIIDLERISKPRGLQDLHVIEKRKENQNSNSTYCIFFMVNKPYAITCSVAFYIPELLMVLAYYRIY	: 230

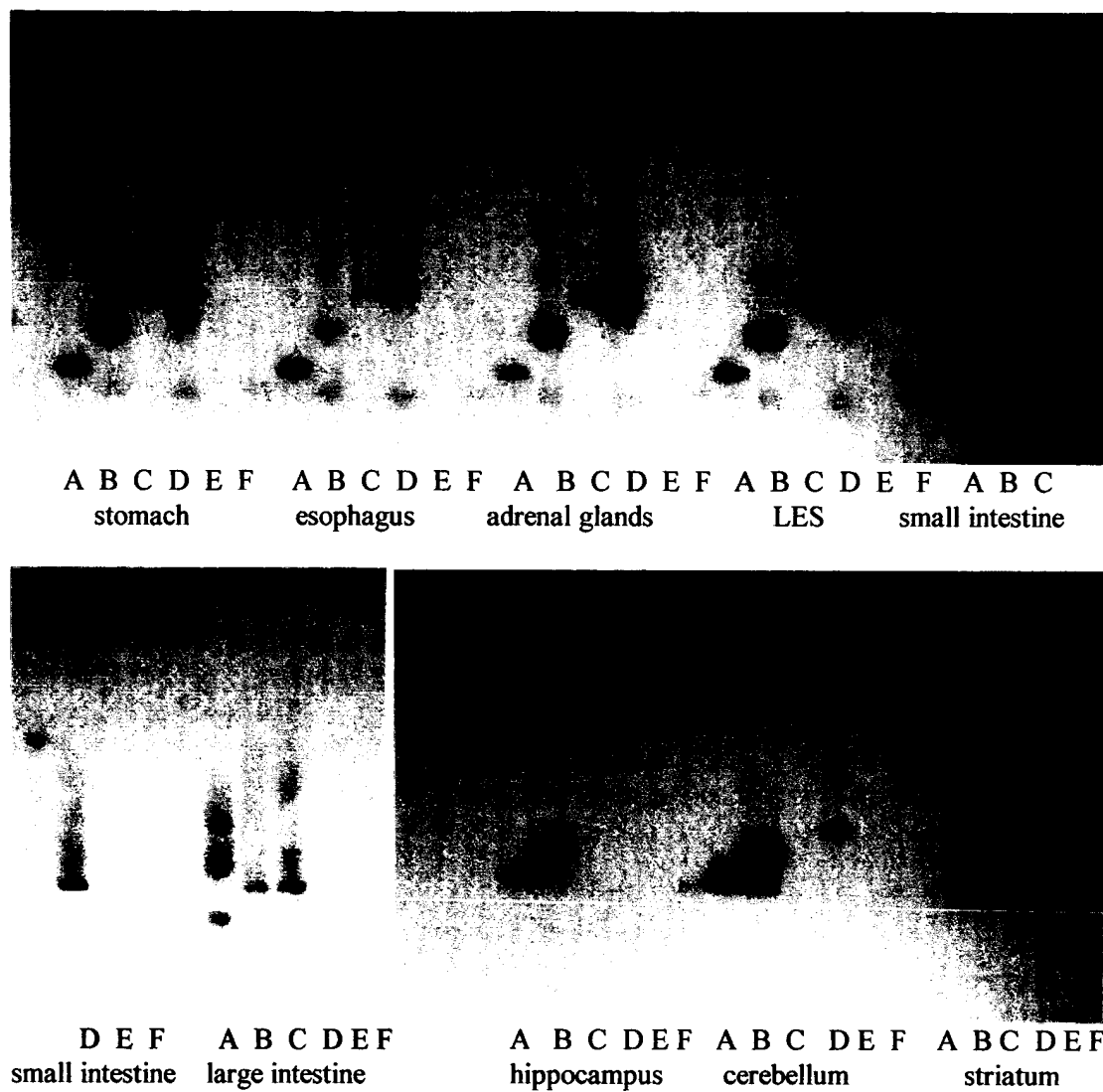
h5HT4B	: VTAKHAHQIOMLQAGASSESPQADQHS	THRMRTETKAAKTLCIIMGCECLCWAPEEFTNIVDPFIDYTVPGQV	: 308
d5HT4B	: VTAKHAHQIOMLQAGAPSEGRPPQADQHS	THRMRTETKAAKTLCIIMGCECLCWAPEEFTNIVDPFIDYTVPGQV	: 307

h5HT4B	: WTAF ^Δ MLG ^Δ YNS ^Δ GLN ^Δ P ^Δ LYA ^Δ FLN ^Δ KSF ^Δ RA ^Δ LI ^Δ LC ^Δ DD ^Δ ERY ^Δ RR ^Δ PS ^Δ IL ^Δ Q ^Δ VP ^Δ CS ^Δ TT ^Δ ING ^Δ ST ^Δ HL ^Δ RD ^Δ AVE ^Δ CG ^Δ Q ^Δ W ^Δ ES	: 385
d5HT4B	: WTAF ^Δ MLG ^Δ YNS ^Δ GLN ^Δ P ^Δ LYA ^Δ FLN ^Δ KSF ^Δ RA ^Δ LI ^Δ LC ^Δ DD ^Δ ERY ^Δ RR ^Δ PS ^Δ IL ^Δ Q ^Δ VP ^Δ CS ^Δ TT ^Δ ING ^Δ ST ^Δ HL ^Δ RD ^Δ AVE ^Δ CG ^Δ Q ^Δ W ^Δ ES	: 384

h5HT4B	: QCHPPATSPLVAAQPSDTAPGTMTQKTAMPPEKGQVLSCL	: 426
d5HT4B	: QCHPPATSPLVAAQPSDT-----	: 402

FIG. 1B

Fig. 2



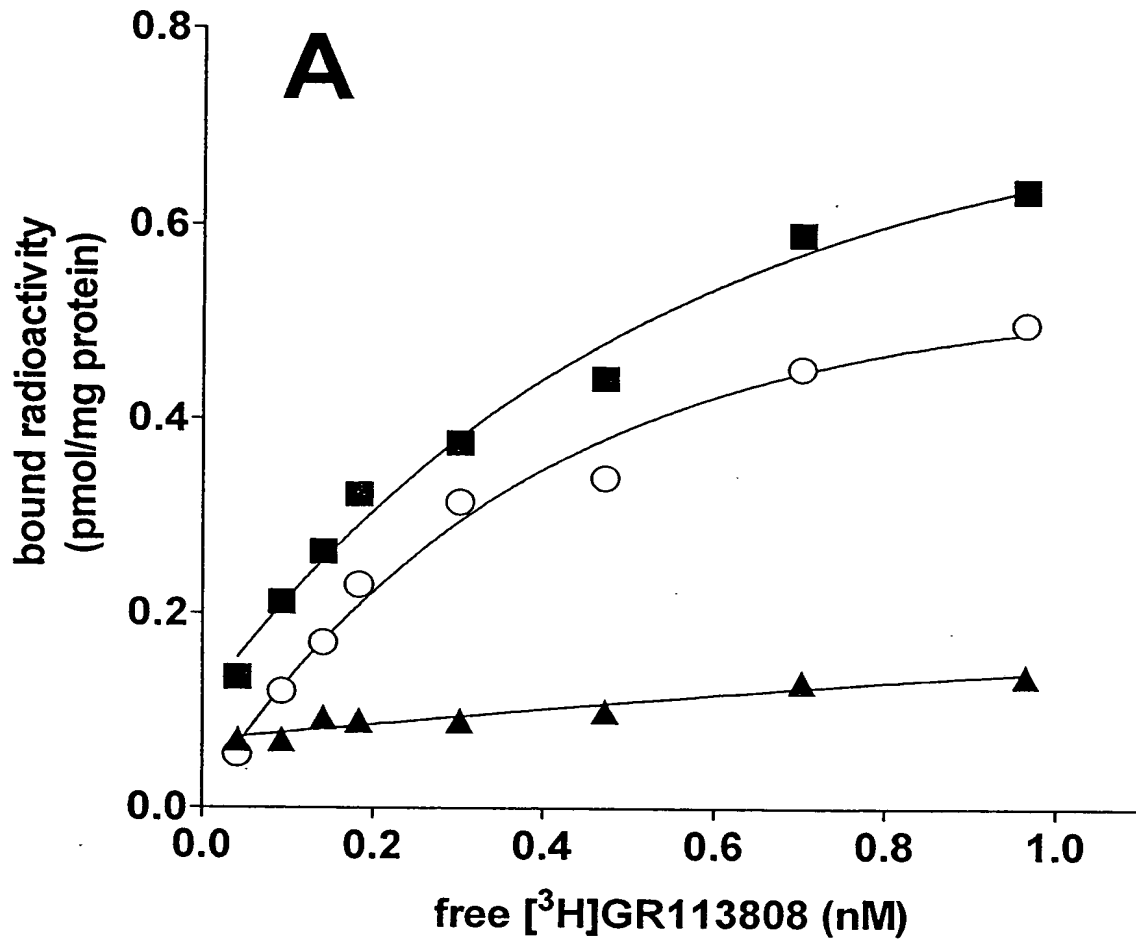


FIG. 3

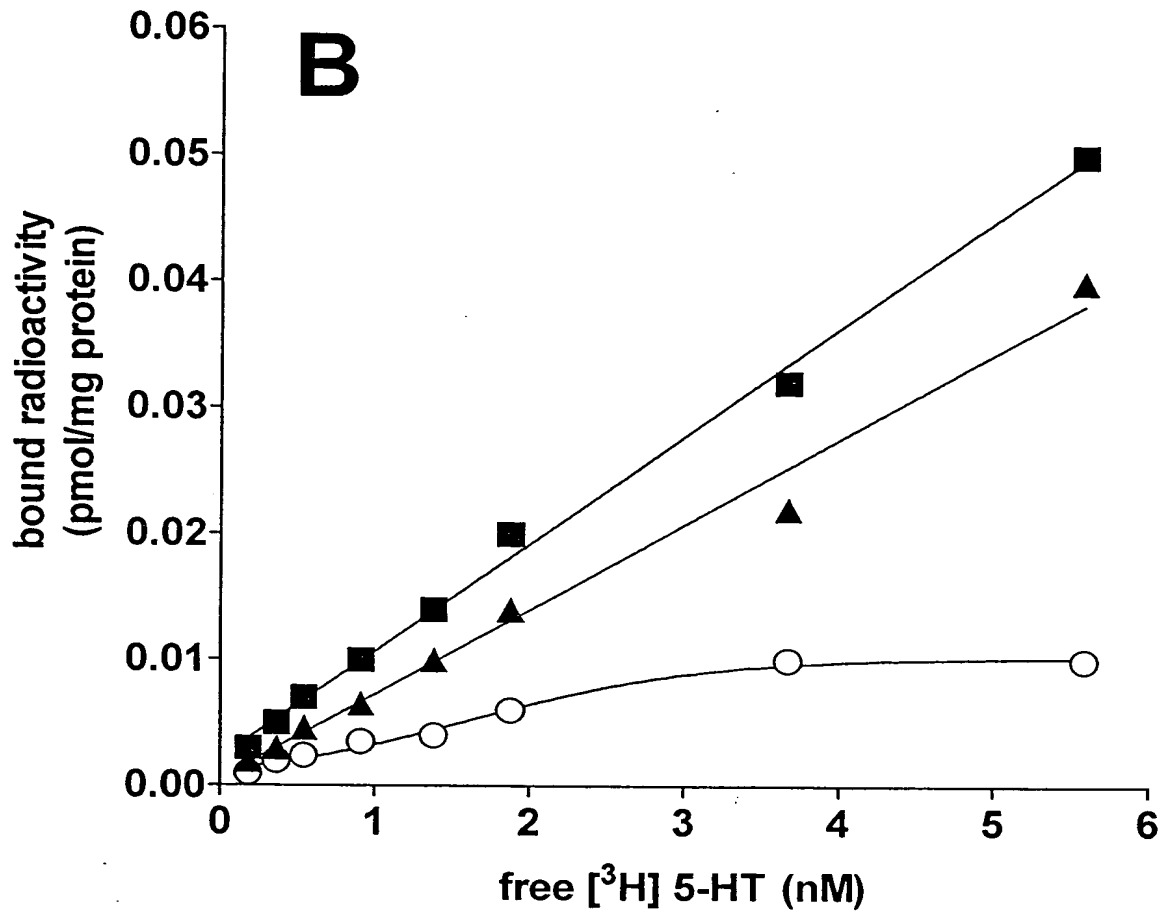


FIG. 4

**Stimulation of AC through human
5-HT₄h receptor in COS-7 cells**

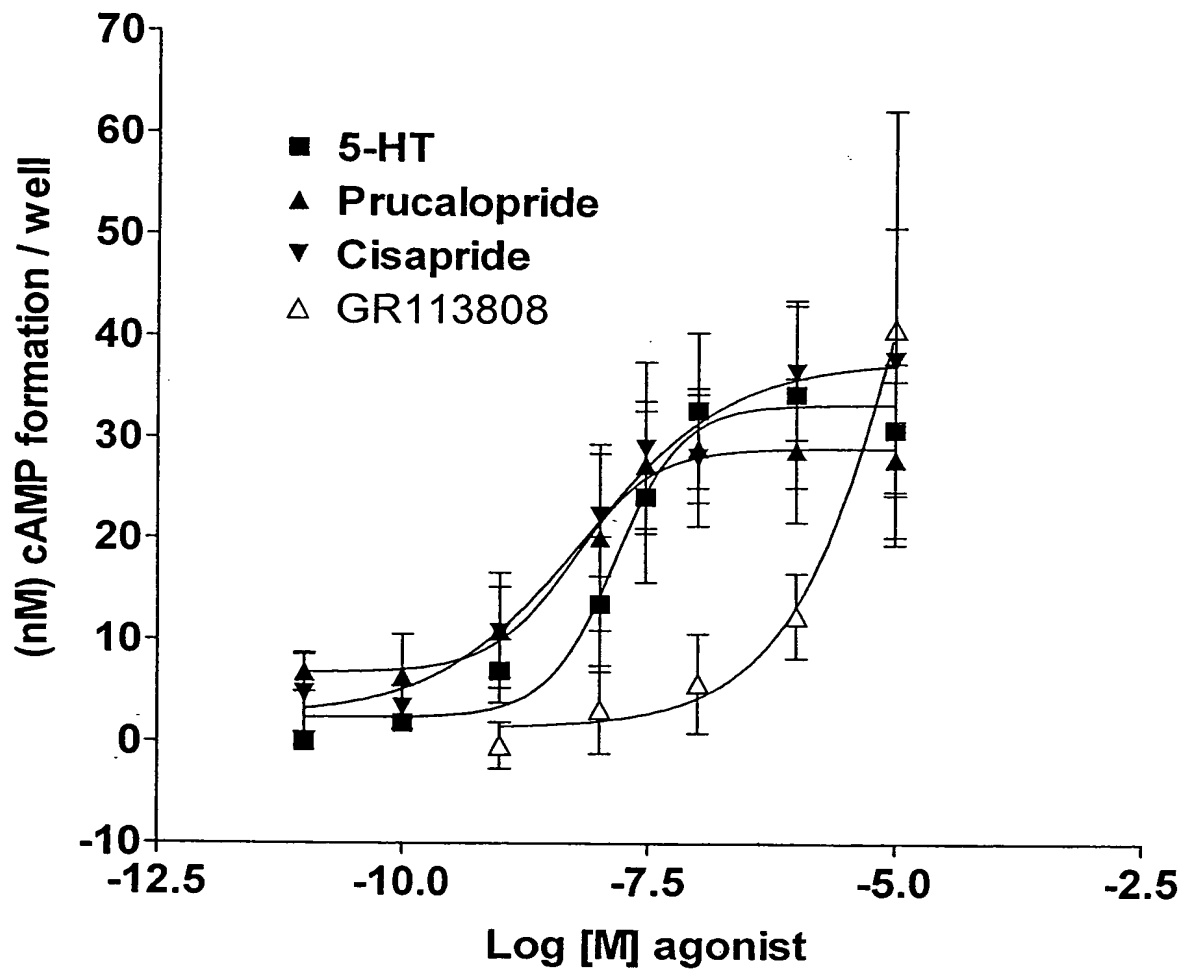


FIG. 5

Binding profile of the human 5-HT_{4(h)} COS-7 cells

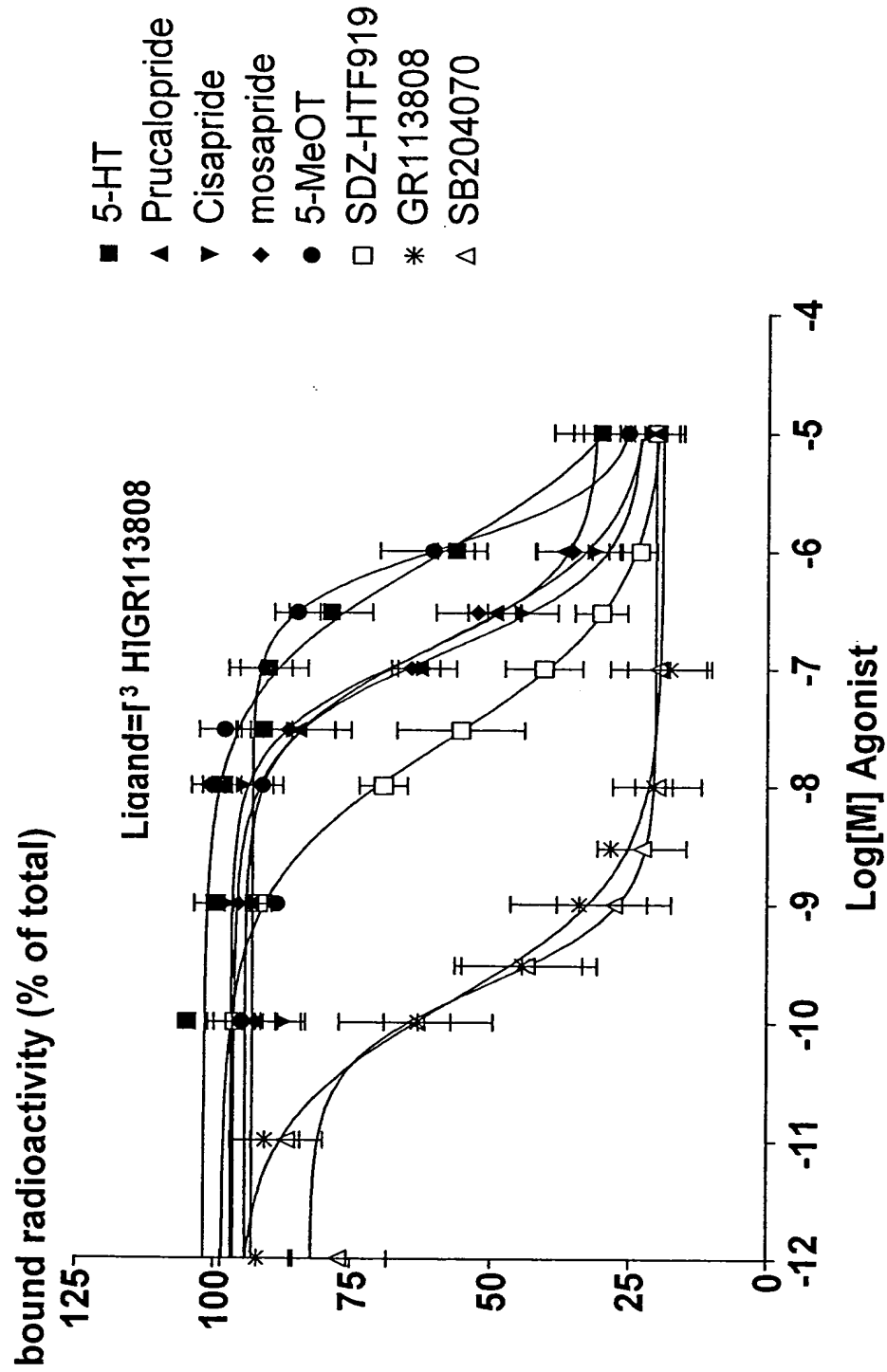


FIG. 6